## WHAT IS CLAIMED IS

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1. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:

(a) setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium depending on the write and/or erase power.

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2. The write and/or erase method as claimed in claim 1, wherein said step (a) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

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3. The write and/or erase method as claimed in claim 1, wherein said step (a) also sets an off-track detection time constant depending on the write and/or erase power.

- 4. The write and/or erase method as claimed in claim 1, wherein said step (a) also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.
- 5. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:
- 15 (a) setting a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to a track on the recording medium depending on the write and/or erase power.

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- 6. The write and/or erase method as

  claimed in claim 5, wherein said step (a) decreases
  the write and/or erase slice level depending on an
  increase of the write and/or erase power or,
  increases the write and/or erase slice level
  depending on a decrease of the write and/or erase

  power or,
- 7. The write and/or erase method as claimed in claim 5, wherein said step (a) also sets an off-track detection time constant depending on

the write and/or erase power.

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8. The write and/or erase method as claimed in claim 5, wherein said step (a) also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

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9. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps of:

setting at least one parameter selected

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(a)

from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting

the external vibration or shock.

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10. The write and/or erase method as claimed in claim 9, wherein a dependency of the write parameters with respect to the write power is

different from a dependency of the erase parameters with respect to the erase power.

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11. The write and/or erase method as claimed in claim 9, further comprising the step of:

(b) judging a type of the recording medium, said step (a) being carried out when said step(b) judges that the recording medium is a high-density recording medium.

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12. A storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising: a setting section for setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording

medium depending on the write and/or erase power.

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13. The storage apparatus as claimed in claim 12, wherein said setting section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power.

The storage apparatus as claimed in claim 12, wherein said setting section also sets an off-track detection time constant depending on the write and/or erase power.

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15. The storage apparatus as claimed in 10 claim 12, wherein said setting section also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

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A storage apparatus having a function of changing a write and/or erase power of a light 20 beam with respect to a recording medium, comprising: a setting section for setting a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus with respect to a track on the recording medium 25 depending on the write and/or erase power.

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The storage apparatus as claimed in claim 16, wherein said setting section decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase

power.

18. The storage apparatus as claimed in claim 16, wherein said setting section also sets an off-track detection time constant depending on the write and/or erase power.

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19. The storage apparatus as claimed in claim 16, wherein said setting section also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

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20. A storage apparatus having a function of changing a write and/or erase power of a light 20 beam with respect to a recording medium, comprising: a setting section for setting at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write 25 and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on 30 the storage apparatus, and a shock detection time constant for detecting the external vibration or shock.

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21. The storage apparatus as claimed in

claim 20, wherein a dependency of the write parameters with respect to the write power is different from a dependency of the erase parameters with respect to the erase power.

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22. The storage apparatus as claimed in claim 20, further comprising:

a judging section for judging a type of the recording medium,

said setting section setting said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.

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